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V. B. Group
11/12/02
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Roald G. van Borselen

Serial No. 09/822,115

Filed: March 30, 2001

Title: METHOD OF IDENTIFICATION OF
NON-PRIMARY EVENTS IN SEISMIC
DATA

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Group Art Unit: 2862

Examiner: Gutierrez, Anthony

Atty Docket No. P30564US

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POWER OF ATTORNEY BY ASSIGNEE

Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned Assignee of the above-identified Application hereby appoints the following attorney:

E. Eugene Thigpen Reg. No. 27,400

to prosecute this Application, with full power of substitution and revocation, to make alterations and amendments therein, and to transact all business in the United States Patent Office connected therewith. All future correspondence should be addressed to:

E. Eugene Thigpen
Petroleum Geo-Services, Inc.
16010 Barker's Point Lane
Suite 600
Houston, Texas 77079

Direct Dial Tel: 281-368-8268
Facsimile: 281-589-1482
E-Mail: eugene.thigpen@pgs.com

CERTIFICATE UNDER 37 CFR 3.73(b)

PGS Americas, Inc., a corporation of Delaware, having a place of business at 738 Highway 6 South, Suite 300, Houston, Texas 77079, certifies that it is the Assignee of the entire right, title and interest in the patent application identified above by virtue of:

An Assignment executed by the inventor, Roald G. van Borselen, on April 10, 2001.

A copy of the recorded Assignment is attached

The undersigned has reviewed the documents in the chain of title of the Application identified above and, to the best of undersigned's knowledge and belief, title is in the Assignee identified above.

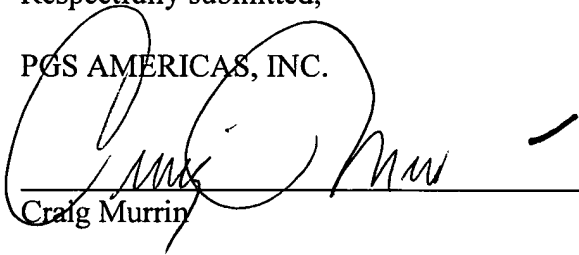
The undersigned, Craig Murrin, Vice President, Legal, is empowered to act on behalf of the Assignee.

The undersigned further declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

PGS AMERICAS, INC.

Date: August 16, 2002



Craig Murrin



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 25, 2001

PTAS

ARNOLD & ASSOCIATES
GORDON T. ARNOLD
2603 AUGUSTA, SUITE 800
HOUSTON, TEXAS 77057



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/04/2001

REEL/FRAME: 011775/0704
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
VAN BORSELEN, ROALD G.

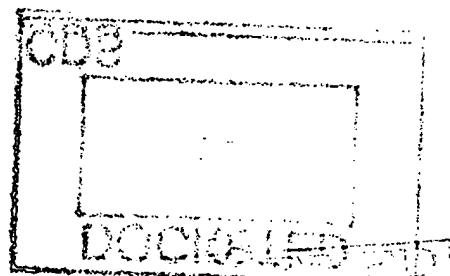
DOC DATE: 04/10/2001

ASSIGNEE:
PGS AMERICAS, INC.
738 SOUTH HIGHWAY 6
SUITE 300
HOUSTON, TEXAS 77079

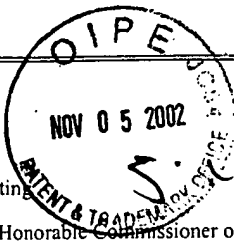
SERIAL NUMBER: 09822115
PATENT NUMBER:

FILING DATE: 03/30/2001
ISSUE DATE:

SHARON BROOKS, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



JUL 28 2001



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FORM PTO-1595
U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab setting

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Roald G. van Borselen

Additional name(s) of conveying party(ies) attached? ☐ yes ☒ no

2. Name and address of receiving party(ies):

Name: PGS Americas, Inc.

Internal Address:

Street Address: 738 South Highway 6, Suite 300
Houston, TX 77079Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignments☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Dates: April 10, 2001

4. Application number(s) or patent number(s): 09/822,115

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

C. Atty. Docket No.(s) P30564US

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning documents should be mailed:

Name: Gordon T. Arnold

Internal Address: Arnold & Associates

Street Address: 2603 Augusta, Suite 800, Houston, Texas 77057

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number: 01-2511

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gordon T. Arnold

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet 1

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to:

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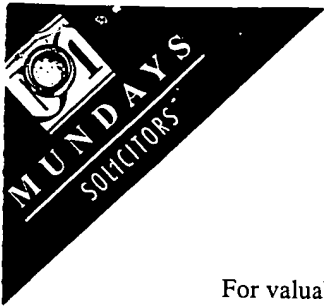
Box Assignments

Washington, D.C. 20231

05/10/2001 6TON11 00000313 09822115

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ORIGINAL ASSIGNMENT

For valuable consideration, I

Roald G. van Borselen of Residence Address: 20 Gainsborough Court
(Type name of inventor) Walton-on-Thames
KT12 1NJ
UK
Citizenship: Dutch

the below signed inventor of record, hereby assigns to

PGS Americas, Inc.

a corporation having a place of business at

738 South Highway 6

Suite 300

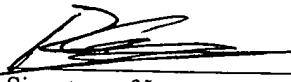
Houston, Texas 77079

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me this day entitled

"Method of Identification of Non-primary Events in Seismic Data"

this assignment including said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assignees, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereby set my hand, date of signature and place of signature as indicated below.


Signature of Inventor

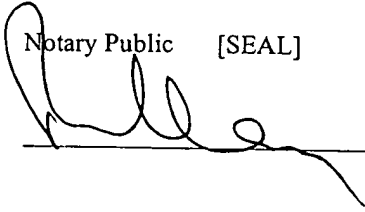
Roald G. van Borselen
Typed Name

10th April 2001
Date of Signature

Chaygate Surrey
Place of Signature
City, Country
England.

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Roald G. van Borselen, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]



RAY WALLEY
Notary Public,
Oak House,
39-41, The Parade,
Claygate,
ESHER, Surrey,
England KT10 0PZ
Tel: 01372 809000
Fax: 01372 460661
E Mail: ray.walley@mundays.co.uk

